

1 Attorney Docket No. 83806

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3 A BROADBAND TOWED LINE ARRAY WITH  
4 SPATIAL DISCRIMINATION CHARACTERISTICS

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6 ABSTRACT OF THE DISCLOSURE

7 A modular sub-array assembly of a composite towed array  
8 includes a multi-chamber support structure with plural discrete  
9 chambers, an acoustically absorptive hub formed at a central axis  
10 of the multi-chamber support structure, and a sensor element in  
11 each of the chambers of the multi-chamber support structure. The  
12 multi-chamber support structure is an integrally formed  
13 viscoelastic cylindrical housing with an array of radially  
14 oriented chambers. Each sensor element is secured within the  
15 selected chamber of the multi-chamber support structure and to an  
16 outer radial surface of the acoustically absorptive hub by a  
17 structural adhesive. Plural sub-array modules may be assembled  
18 together to form a single towed array.